

FORM PTO-449 U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY DOCKET NO
PEDERSEN=11

SHEET 1 OF 2

SERIAL NO:
10/522,171

APPLICANT: PEDERSEN, et al.

LIST OF DOCUMENTS CITED BY APPLICANT
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FILING DATE: November 4, 2005

GROUP: 1617

U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROP.

FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES/NO
	CN	02 1 0 3 8 0 8	27 Dec 2002	PCT			
	CO	02 1 0 2 8 2 0	27 Dec 2002	PCT			
	CP	03 0 7 8 6 2 5	25 Sept 2003	PCT			
	CQ	20 04 01 3 0 7 0	12 Feb 2004	PCT			
	CR	20 04 11 0 9 6 4	23 12 2004	PCT			
	CS	20 04 02 4 9 2 9	25 March 2004	PCT			
	CT	20 04 05 6 9 9 4	8 July 2004	PCT			
	CU	03 0 7 8 4 4 5	25 Sept. 2003	PCT			
	CV	03 0 7 8 6 2 6	25 Sept 2003	PCT			
	CW	03 0 7 8 0 5 0	25 Sept 2003	PCT			
	CX	03 0 7 8 4 4 6	25 Sept 2003	PCT			
	CY	03 0 7 8 6 2 7	25 Sept 2003	PCT			
	CZ	20 04 07 4 5 0 1	2 Sept 2004	PCT			
	DA	20 04 07 4 4 2 9	2 Sept 2004	PCT			
	DB	20 04 08 3 4 2 7	30 Sept 2004	PCT			
	DC	20 04 03 9 8 2 5	13 May 2004	PCT			
	DD	20 04 00 1 0 4 2	30 Dec 2003	PCT			
	DE	20 05 00 3 7 7 8	13 Jan 2005	PCT			
	DF	0 2 3 8 7 5 7	16 May 2002	PCT			
	DG	9 8 4 2 8 3 2	1 Oct 1998	PCT			
	DH	9 8 0 1 5 8 1	15 Jan 1998	PCT			

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AB	DI	
	DJ	Negrini M et al. "Recombination during reverse transcription: an evaluation of the role of the nucleocapsid protein". Journal of Molecular Biology, vol 286, no. 1 12 Feb 1999, p15-31
	DK	Moumen Abdelkrim et al. "The HIV-1 repeated sequence R as a robust hot-spot for copy-choice recombination". Nucleic acids research, vol. 29, no. 18, 15 September 2001, p 3814-3821
	DL	Negrini M et al. "Homologous recombination prompted by reverse transcriptase during copying of two distinct RNA templates". Proceedings of the National Academy of Sciences of the United States, vol. 92, no. 15, 1995, p 6971-6975
	DM	Peliska, J et al. "Fidelity of in vitro DANN strand transfer reactions catalyzed by HIV-1 reverse transcriptase". Biochemistry, vol. 33, no. 13, 1994, p 3890-3895
	DN	Peliska, J et al. "Mechanism of DANN strand transfer reactions catalyzed by HIV-1 reverse transcriptase". Science vol. 258, no. 5058, 1992, p1112-1118
	DO	Gish, G et al. "DNA and RNA sequence determination based on phosphorothioate". Chemistry Science, American Association for advancement of science, US, vol. 240, 1988, p 1520-1522
	DP	Hwang, CK et al. "Dynamic copy choice: steady state between murine leukemia virus polymerase and polymerase-dependent RNase H activity determines frequency of in vivo template switching". Proceedings of the National Academy of Sciences of the United States, vol. 98, no. 21, 9 Oct 2001 p 12209-12214
	DQ	Brakmann, S et al. "An error-prone T7 RNA polymerase mutant generated by directed evolution ChemBiochem". A European journal of Chemical Biology, 2 Mar 2001, vol. 2, no. 3, 2 March 2001 p212-219
	DR	DeStefano JJ et al. "Determinants of the RNase H cleavage specificity of human immunodeficiency virus reverse transcriptase". Nucleic acids research, vol 21, no. 18, 1993, p 4330-4338
	DS	Wu Weimin et al. "Strand Transfer Mediated by Human Immunodeficiency Virus Reverse Transcriptase in Vitro is Promoted by Pausing and Results in Misincorporation". Journal of Biological Chemistry, vol. 270, no. 1, 1995, p325-332
	DT	Svarovskaia ES et al. "Structural determinants of murine leukemia virus reverse transcriptase that affect the frequency of template switching". Journal of Virology, vol. 74, no. 15, Aug 2000, p7171-7178
AB		Negrini, M et al. "Copy-choice recombination by reverse transcriptases: Reshuffling of genetic markers mediated by RNA chaperones". Proceedings of the National Academy of Sciences of the United States, vol. 97, no. 12, 6 June 2000, p 6385-6390

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APPLICANT: Nuevolution A/S

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	CV	03	0	7	8	6	2	6	25 Sept 2003	PCT			
	CW	03	0	7	8	0	5	0	25 Sept 2003	PCT			
	CX	03	0	7	8	4	4	6	25 Sept 2003	PCT			
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	DC	20	04	03	9	8	2	5	13 May 2004	PCT			
	DD	20	04	00	1	0	4	2	30 Dec 2003	PCT			
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	DF	0	2	3	8	7	5	7	16 May 2002	PCT			
	DG	9	8	4	2	8	3	2	1 Oct 1998	PCT			
AB	DH	9	8	0	1	5	8	1	15 Jan 1998	PCT			

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LIST DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)		APPLICANT: Nuevolution A/S	
		FILING DATE: November 4, 2005	GROUP:
OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)			
AB	DI	Negroni M et al. „Recombination during reverse transcription: an evaluation of the role of the nucleocapsid protein“. Journal of Molecular Biology, vol 286, no.1 12 Feb 1999, p15-31	
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	DK	Negroni M et al. „Homologous recombination prompted by reverse transcriptase during copying of two distinct RNA templates“ Proceedings of the National Academy of Sciences of the United States, vol. 92, no. 15, 1995, p 6971-6975	
	DL	Peliska, J et al. „Fidelity of in vitro DANN strand transfer reactions catalyzed by HIV-1 reverse transcriptase“. Biochemistry, vol. 33, no. 13, 1994, p 3890-3895	
	DM	Peliska, J et al. „Mechanism of DANN strand transfer reactions catalyzed by HIV-1 reverse transcriptase“. Science vol. 258, no. 5058, 1992, p1112-1118	
	DN	Gish, G et al. „DNA and RNA sequence determination based on phosphorothioate“. chemistry Science, American Association for advancement of science, US, vol. 240, 1988, p 1520-1522	
	DO	Hwang, CK et al. „Dynamic copy choice: steady state between murine leukemia virus polymerase and polymerase-dependent RNase H activity determines frequency of in vivo template switching“. Proceedings of the National Academy of Sciences of the United States, vol. 98, no. 21, 9 Oct 2001 p 12209-12214	
	DP	Brakmann, S et al. „An error-prone T7 RNA polymerase mutant generated by directed evolution ChemBiochem“. A European journal of Chemical Biology. 2 Mar 2001, vol. 2, no. 3, 2 March 2001 p212-219	
	DQ	DeStefano JJ et al. „Determinants of the RNase H cleavage specificity of human immunodeficiency virus reverse transcriptase“. Nucleic acids research, vol 21, no. 18, 1993, p 4330-4338	
	DR	Wu Weimin et al. „Strand Transfer Mediated by Human Immunodeficiency Virus Reverse Transcriptase in Vitro is Promoted by Pausing and Results in Misincorporation“. Journal of Biological Chemistry, vol. 270, no. 1, 1995, p325-332	
V	DS	Svarovskaia ES et al. „Structural determinants of murine leukemia virus reverse transcriptase that affect the frequency of template switching“. Journal of Virology, vol. 74, no. 15, Aug 2000, p7171-7178.	
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APPLICANT: Pedersen et al.

FILING DATE: 11 July 2003

GROUP:

U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROP.
AB	AA	6 4 2 9 3 0 0	Aug 6, 2002	Kurz, M et al.			
	AB	6 2 0 7 4 4 6	Mar 27, 2001	Szostak, J et al.			
	AC	6 1 4 3 5 0 3	Nov 7, 2000	Baskerville, DS et al.			
	AD	6 6 2 0 5 8 7	Sept 16, 2002	Taussig, MJ et al.			May 28, 1998
AB	AE	20 03 00 04 1 2 2	Jan 2, 2003	Beigelman et al.			April 4, 2001

FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES/NO
AB	AF	9 3 0 3 1 7 2	18 Feb 1991	PCT			
	AG	9 8 3 1 7 0 0	23 July 1998	PCT			
	AH	0 0 3 2 8 2 3	8 June 2000	PCT			
	AI	0 0 4 7 7 7 5	17 Aug 2000	PCT			
	AJ	9 0 0 5 7 8 5	31 May 1990	PCT			
	AK	9 1 0 5 0 5 8	18 Apr 1991	PCT			
	AL	1 5 3 3 3 8 5	25 May 2005	EP			
AB	AM	20 05 02 6 3 8 7	24 March 2005	PCT			

OTHER DOCUMENTS (include author, title, name of publication, volume, pages & date of publication)

AB	AN	Nemoto, N et al. "In vitro virus: bonding of mRNA bearing puromycin at the 3'-terminal end to the C-terminal end of its encoded protein on the ribosome in vitro". FEBS Lett. 1997 Sep 8;414(2):405-8. (our ref: A2)
	AO	Roberts, RW et al. "RNA-peptide fusions for the in vitro selection of peptides and proteins". Proc Natl Acad Sci U S A. 1997 Nov 11;94(23):12297-302. (our ref: A3)
	AP	Kurz, M et al. "An efficient synthetic strategy for the preparation of nucleic acid-encoded peptide and protein libraries for in vitro evolution protocols" Fourth International Electronic Conference on Synthetic Organic Chemistry (ECSOC-4), www.mdpi.org/ecsoc-4.htm , September 1-30, 2000
	AQ	Kurz, M et al. "Psoralen photo-crosslinked mRNA-puromycin conjugates: a novel template for the rapid and facile preparation of mRNA-protein fusions. Nucleic Acids Res. 2000 Sep 15;28(18):E83.
	AR	Keiler et al. "Role of a peptide tagging system in degradation of proteins synthesized from damaged messenger RNA". Science. 1996 Feb 16;271(5251):990-3.
	AS	Benner, SA. "Expanding the genetic lexicon: incorporating non-standard amino acids into proteins by ribosome-based synthesis". Trends Biotechnol. 1994 May;12(5):158-63
	AT	Mendel, D. "Site-directed mutagenesis with an expanded genetic code". Annu. Rev. Biophys. Biomol. Struct. 1995. 24:463-93
	AU	Liu DR et al. "Engineering a tRNA and aminoacyl-tRNA synthetase for the site-specific incorporation of unnatural amino acids into proteins in vivo". Proc Natl Acad Sci U S A. 1997 Sep 16;94(19):10092-7.
	AV	Liu DR et al. "Progress toward the evolution of an organism with an expanded genetic code". Proc Natl Acad Sci USA. 1999 Apr 27;96(9):4780-5
	AW	Liu, R et al. "Optimized synthesis of RNA-protein fusions for in vitro protein selection". Methods Enzymol. 2000;318:268-93.
	AX	Wang, L et al. "A new functional suppressor tRNA/aminoacyl-tRNA synthetase pair for the in vivo incorporation of unnatural amino acids into proteins" J. Am. Chem. Soc 2000, 122, 5010-5011 Pub 5 April 2000
AB	AY	Ellman J.A., et al. "Biosynthetic method for introducing Unnatural Amino acids site specifically into proteins". Methods Enzymol. 202, 301-336 (1992)
	AZ	Isaacs Salas et al. "Biosynthetic Polydeoxyribonucleotides as Direct Templates for Polypeptide Synthesis". J. of Biological Chemistry, vol.243, No. 6, 1968, p. 1012-1015

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				IA FILING DATE: July 11, 2003		GROUP:	
U.S. PATENT DOCUMENTS (include at least patentee, patent number and issue date)							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	PATENTEE	CLASS	SUB- CLASS	FILING DATE IF APPROP.
AB	BA	20050042669	Published 24 February 2005	Liu, David R			
AB	BB	20050025766	Published 3 February 2005	Liu, David R			
FOREIGN PATENT DOCUMENTS (include at least document number, publication date and country)							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES/NO
AB	BC	2004099441	18 Nov 2004	PCT			
AB	BD	03082901	9 Oct 2003	PCT			
	BE	9105058	18 April 1991	PCT			
	BF	2005026387	24 March 2005	PCT			
OTHER DOCUMENTS (include author, title, name of publication, volume, pages & date of publication)							
AB	BG	"The Nucleus", January 2004, Vol. LXXXII, No. 5, R. Grubina; "Summer Research Report: R. Grubina on DNA Templated Synthesis for Small Molecule Library", p10-14					
	BH	Nazarenko et al., "A closed tube format for amplification and detection of DNA based on energy transfer", Nucleic Acids Research, 1997, Vol. 25, No. 12, p2516-2521					
	BI	Chan et al., "Intra-tRNA distance measurements for nucleocapsid protein-dependent tRNA unwinding during priming of HIV reverse transcription", PNAS Vol. 96, p459-464, January 1999.					
	BJ	DNA-templated synthesis as a basis for the evolution of synthetic molecules. Liu DR, Gartner ZJ, Kanan MW, Calderone CT ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 225: 612-ORGN, Part 2, MAR 2003					
	BK	Rodriguez et al., "Template-directed extension of a guanosine 5'-phosphate covalently attached to an oligodeoxycytidylate template", J Mol Evol (1991) 33:477-482					
	BL	Inoue et al, "Oligomerization of (Guanosine 5'-phosphor)-2-methylimidazolidine on Poly(C), J. Mol. Biol. (1982), 162, 201-217					
	BM	C. B. Chen et al., "Template-directed synthesis on Oligodeoxycytidylate and Polydeoxycytidylate templates" J. Mol. Biol. 1985, 181, 271					
	BN	H. Rembold et al., "Single-strand regions of Poly(G) act as templates for oligo(C) synthesis" J. Mol. Evol. 1994, 38, 205.					
	BO	T. Inoue et al., "A nonenzymatic RNA polymerase model", Science 1983, 219, p859-862					
	BP	O. L. Acevedo et al., "Non-enzymatic transcription of an oligonucleotide 14 residues long", J. Mol. Biol. 1987, 197, p187-193					
AB	BQ	C. Böhler et al., "Template switching between PNA and RNA oligonucleotides", Nature 1995, 376, 578-581					
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OTHER DOCUMENTS (include author, title, name of publication, volume, pages and date of publication)			
AB	BR	Acevedo et al., "Template-directed oligonucleotide ligation on hydroxylapatite", Nature vol. 321, 19 June 1986, p790-792	
	BS	Piccirilli, "RNA seeks its maker", Nature vol. 376, 17 August 1995, p548-	
	BT	A. W. Schwartz et al., "Template-directed synthesis of novel, nucleic acid-like structures", Science 1985, 228, 585-7	
	BU	Halpin et al.: DNA display III. Solid-phase organic synthesis on unprotected DNA. PLoS Biol. 2004 Jul;2(7):E175. Epub 2004 Jun 22.	
	BV	Halpin et al.: DNA display II. Genetic manipulation of combinatorial chemistry libraries for small-molecule evolution. PLoS Biol. 2004 Jul;2(7):E174. Epub 2004 Jun 22.	
	BW	Halpin et al.: DNA display I. Sequence-encoded routing of DNA populations. PLoS Biol. 2004 Jul;2(7):E173. Epub 2004 Jun 22	
	BX	"Highly Sensitive In Vitro Selections for DNA-Linked Synthetic Small Molecules with Protein Binding Affinity and Specificity" Doyon, J. B.; Snyder, T. M.; Liu, D. R. J. Am. Chem. Soc. 125, 12372-12373 (2003).	
	BY	"Translation of DNA into Synthetic N-Acyloxazolidines" Li, X.; Gartner, Z. J.; Tse, B. N.; Liu, D. R. J. Am. Chem. Soc. 126, 5090-5092 (2004).	
	BZ	"DNA-Templated Organic Synthesis: Nature's Strategy for Controlling Chemical Reactivity Applied to Synthetic Molecules" Li, X.; Liu, D. R. Angew. Chem. Int. Ed. 43, 4848-4870 (2004).	
	CA	"DNA-Templated Organic Synthesis and Selection of a Library of Macrocycles" Gartner, Z. J.; Tse, B. N.; Grubina, R.; Doyon, J. B.; Snyder, T. M.; Liu, D. R. Science 305, 1601-1605 (2004).	
	CB	"Nucleic Acid-Templated Synthesis as a Model System for Ancient Translation" Calderone, C. T. and Liu, D. R. Curr. Opin. Chem. Biol. 8, 645-653 (2004).	
	CC	"DNA-Templated Functional Group Transformations Enable Sequence-Programmed Synthesis Using Small-Molecule Reagents" Sakurai, K.; Snyder, T. M.; Liu, D. R. J. Am. Chem. Soc. 127, 1660-1661 (2005).	
	CD	"Translating DNA into synthetic Molecules", David R. Liu, PLoS Biology, July 2004, Vol 2, Iss. 7, p905-6.	
	CE	"The Development of Amplifiable and Evolvable Unnatural Molecules", David R. Liu, Harvard Univ. Cambridge MA Dept of Chemistry and Chemical Biology, Report dated 4 Aug 2003 No. A104614, approved for public release.	
	CF	Website of Prof. David R. Liu, publicly available 11 March 2000	
	CG	Website of Prof. David R. Liu, publicly available 15 Oct 2000	
	CH	Website of Prof. David R. Liu, publicly available 1 March 2001	
	CI	Website of Prof. David R. Liu, publicly available 19 April 2001	
	CJ	Website of Prof. David R. Liu, publicly available 23 Sept 2001	
	CK	Website of Prof. David R. Liu, publicly available 24 Sept. 2002	
	CL	Website of Prof. David R. Liu, publicly available 20 Nov 2002	
AB	CM	Website of Prof. David R. Liu, publicly available 15 Oct 2003	
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